(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau





(43) International Publication Date 22 July 2004 (22.07,2004)

PCT

(10) International Publication Number WO 2004/061009 A1

- (51) International Patent Classification7: C08K 5/378, G02B 6/00, 1/04, 6/12
- C08L 101/00,
- (74) Agent: SIKs & Co.; 8th Floor, Kyobashi-Nisshoku Bldg.,

(21) International Application Number:

PCT/JP2004/000016

- (22) International Filing Date: 6 January 2004 (06.01.2004)
- (25) Filing Language:

English

(26) Publication Language:

English

- (30) Priority Data:
- 2003-000522 6 January 2003 (06.01.2003) 6 February 2003 (06.02.2003) 2003-029556 ЛР
- (71) Applicant (for all designated States except US): FUJI PHOTO FILM CO., LTD. [JP/JP]; 210, Nakanuma, Minami-ashigara-shi, Kanagawa, 2500193 (JP).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SASAKI, Hiroki [JP/JP]; c/o FUJI PHOTO FILM CO., LTD. 210, Nakanuma, Minami-ashigara-shi Kanagawa, 2500193 (JP). YASUDA, Takayasu [JP/JP]; c/o FUJI PHOTO FILM CO., LTD. 210, Nakanuma, Minami-ashigara-shi Kanagawa, 2500193 (JP). HATANO, Seiji [JP/JP]; c/o FUJI PHOTO FILM CO., LTD. 210, Nakanuma, Minami-ashigara-shi Kanagawa, 2500193 (JP).

8-7, Kyobashi 1-chome, Chuoku, Tokyo, 1040031 (JP). (81) Designated States (unless otherwise indicated, for every

kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,

KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,

MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,

TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,

Published:

with international search report

ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: OPTICAL MEMBERS AND POLYMERIZABLE COMPOSITIONS AND THIO COMPOUNDS FOR PRODUCING THEM

$$R^{4a}$$
 N S L^{2a} L^{2a} L^{3a} L^{3a}

(57) Abstract: Disclosed is an optical material comprising a matrix formed of a polymer and at least a compound selected from a group denoted by a formula (la) or formula (2a) , wherein R^{1a} , R^{2a}and R^{3a} respectively denote an optionally substituted alkyl group; R4a and R4a respectively denote an optionally substituted alkyl group; and L1a to L5a respectively denote a hydrogen atom, a halogen atom, an optionally substituted alkyl group or the like provided that at least two of L1a, L^{2a}, L^{3a}, L^{4a} and L^{5a} denote a halogen atom, an optionally substituted alkyl group, an optionally substituted alkoxy group or an optionally substituted alkylthio group.